

## List of Key Drivers and Constraints

At its May 3, 2001 meeting, the Advisory Committee generated the following list of key drivers and constraints for *Update 2003* to consider in planning for the future, shown below in alphabetical order.

1. <b>Climate &amp; Climate Change</b> (e.g., average/maximum-daily temperature, rainfall, global warming/climate change trends; effects on supplies and uses)
2. <b>Commercial, Industrial and Institutional Use</b> (including energy generation)
3. <b>Economics</b> (e.g., real price of water [including impacts of energy costs], price elasticity, subsidies and price supports, rate structure, national and world crop market trends, international trade agreements, cost of water management options; diversification of local economies)
4. <b>Environmental Factors</b> (e.g., land restoration, soil salinity and subsoil drainage, reallocation of environmental water to/from urban/ag for drought relief, and hydropower generation)
5. <b>Infrastructure Constraints</b> (statewide storage, extraction and conveyance capabilities for both surface and groundwater)
6. <b>Land Use</b> (e.g., urbanization, crop mix, crop land retirement, conservation easements, other land ownership trends, conversion to habitat, watershed management, drainage)
7. <b>Long Term Groundwater Quantity and Quality</b>
8. <b>Other Planning Processes</b> (CALFED, other State & federal efforts, increased role of local planning processes)
9. <b>Population</b> (e.g., rate of growth, location, density, demographics [including major shifts in age structure & ethnicity] and median income)
10. <b>Public Education and Acceptance</b> (e.g., acceptance of reclaimed/recycled water; acceptance of tax and other policies)
11. <b>Public Policies</b> (tax policies and infrastructure investments, political shifts and bond issues; local regulations, especially groundwater; bi-national opportunities [U.S. and Mexico.])
12. <b>Regulatory Factors</b> (e.g., adjudications, water rights, Endangered Species Act listings, flood control impacts, recreational requirements, other federal and State laws and agreements [e.g., COA])
13. <b>Technology</b> (new industries have new water needs; genetically modified crops may have impact water uses)
14. <b>Water Quality</b> (including Delta standards and drinking water standards)
15. <b>Water Use Efficiency</b> (e.g., quantification, technologies, economics, irrigation techniques, State and federal standards/requirements)